Supplemental material

Effects of sand compaction and mixing on pore structure and the unsaturated soil hydraulic properties

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Fig. S1. Effect of different degree of compaction (a) and mixing (b) on the cumulative pore body radius distribution.
Fig. S2: Effect of different degree of compaction (a) and mixing (b) on the cumulative pore throat radius distribution.
Fig. S3: Plots of the average pore throat radius (APTR) versus average pore body radius (APBR) for different porosities as obtained with (a) the compaction simulations, and (b) the mixing simulations.
Fig. S4: Effect of $D_{50}$ on the average pore body and pore throat radius of different combinations of main sand S2 with the other sands (S1, S3, S4, S5). AR denotes the average radius.
Fig. S5: Effect of different degrees of compaction (a) and sand mixing (b) on the soil water retention curve
Fig. S6. Effect of different degrees of compaction and sand mixing on the van Genuchten parameter $n$. Calculations for the mixing scenarios assumed a porosity of 0.40. APTR denotes the average pore throat radius.